



T3/Oat tutorials

Tutorial 1: Uploading germplasm information

<https://triticeaetoolbox.org/oat/>

T3 line records

- The line name is the unique identifier for a line record
- Required information: Line name, breeding program, filial generation and species
- Loading line information is the first step towards uploading phenotype and genotype data to T3/Oat

Line Record OGLE

Passport

Line record name	OGLE
Breeding program	University of Illinois (UIL)
Pedigree string	BRAVE//TYLER/EGDOLON23
Generation	9
Updated on	2016-03-10 05:52:33

Synonyms

IL73-2664
GRIN: Clav 9401
POOL GID: 66

Phenotype, Genotype Data

Phenotype Results	Show
Marker Alleles	Show

Genetic Properties

Attribute/Gene	Value/Allele
Species	sativa
Lemma color	Amber/White
Growth habit	Spring
Hull	Hulled
Fluorescence	Non-fluorescent
Awn type	Straight
Straw color	Tan
Milling	Primary use

T3/Oat line submission form

- Line information is submitted to T3 using the line submission form
- The template can be used to add new lines or to update the information held about existing T3 lines

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1	Line Submission Form															
2	Version	29Jan15														
3	*Crop	Oat														
4	*Line Name	*Breeding Program	Aliases	GRIN accession	Pedigree	*Filial Generation	*Species	Lemma color	Growth habit	Straw color	Hull	Milling	Fluorescence	Comments		
5			comma separated values		Purdy notation	0-9										
6	OGLE	UIL	IL73-2664	Clav 9401	BRAVE//TYLER/EGDOLON23	9	sativa	Amber/Wr	Spring	Tan	Hulled	Primary use	Non-fluorescent			
7	OTANA	USD	63AB5280-7	Clav 9252	CIS345/ZANSTER	9	sativa	Amber/Wr	Spring	Yellow	Hulled	Primary use				
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42																

Notes
Fields with an asterisk are required.

***Line name**
Line Names are unique identifiers for each line. They can be used to update the information held about a line or to replace or supplement the information held.

A list of line names can determine whether any line is already in the database.

In order to be able to search for a line, the following rules must be followed:

- Use all capital letters.
- Spaces cannot be used.
- Remove trailing spaces.
- Characters are restricted to A-Z, 0-9, and hyphen.
- A pipe "|" followed by a space is used to separate the line name from the breeding program code.

Aliases
The same naming rule applies. Aliases must be unique. A line can have more than one alias.

Breeding program code
Program responsible for the line. About T3 menu, 'Control'.

GRIN Accession
Include the prefix (e.g. IL73-2664).

Pedigree formats
Submit pedigrees in box VISTA4/SD88504/3/SC. Employ the T3 line name for intermediate parents in order to include earlier generations.

Filial generation
This is the filial generation common ancestor of all derived plants; for anyt...

***Species**
Allowed values can be found in the T3 database.

Genetic characters
The species column...

Tutorial 1: Outline

1. Line nomenclature
2. Search existing line records in T3/Oat
3. The line submission template
 1. Downloading the template
 2. Completing the template
4. Uploading the template
 1. Test loading the template
 2. Submitting the template

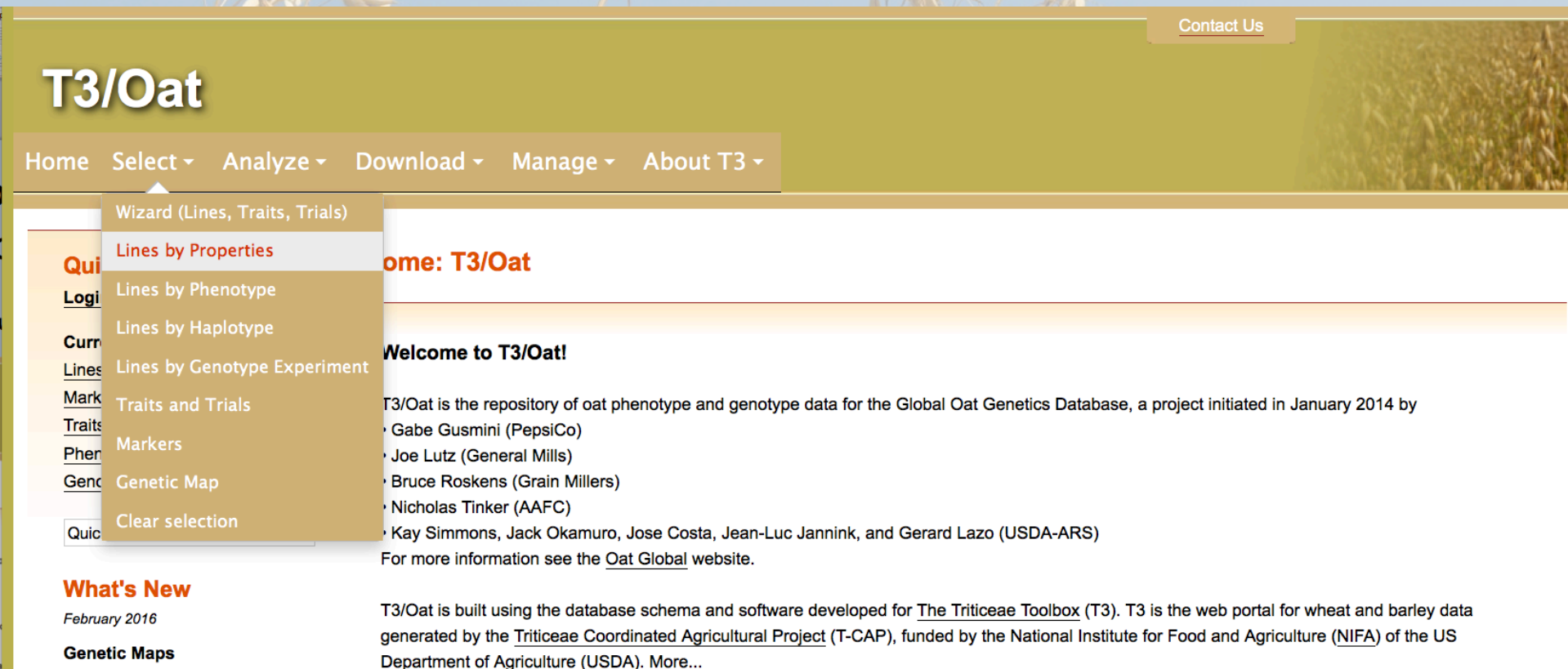
Section 1: Line nomenclature

Rule	Example
1. Capital letters only	Leggett → LEGGETT
2. No spaces: replace spaces between two letters with an underscore “_” and remove spaces that separate a letter from a number.	AC Assiniboia → AC_ASSINIBOIA
	Clintland 60 → CLINTLAND60
3. Characters are restricted to letters, numbers, underscores and dashes: remove special characters or replace with an underscore “_” if separation is required to maintain meaning.	Dippes Überwinder → DIPPES_UBERWINDER
	24-30-B/69 → 24-30-B69
4. Line names must be unique: a pipe “ ” and the GRIN accession of the line can be used to differentiate lines with the same common name.	RED_ALGERIAN CIAV4635

- Format line names according to the rules outlined above
- Now use the formatted list to search existing T3/Oat line records

Section 2: Searching existing line records in T3/Oat

- Navigate to the T3/Oat homepage at <https://triticeaetoolbox.org/oat/>
- Choose the Select menu> Lines by Properties



The screenshot displays the T3/Oat website interface. At the top, there is a green header bar with the "T3/Oat" logo on the left and a "Contact Us" button on the right. Below the header is a navigation bar with the following links: Home, Select, Analyze, Download, Manage, and About T3. The "Select" menu is open, showing a list of options: Wizard (Lines, Traits, Trials), Lines by Properties (highlighted), Lines by Phenotype, Lines by Haplotype, Lines by Genotype Experiment, Traits and Trials, Markers, Genetic Map, and Clear selection. The main content area features a "Welcome to T3/Oat!" message, followed by a paragraph stating that T3/Oat is the repository of oat phenotype and genotype data for the Global Oat Genetics Database, a project initiated in January 2014 by Gabe Gusmini (PepsiCo), Joe Lutz (General Mills), Bruce Roskens (Grain Millers), Nicholas Tinker (AAFC), and Kay Simmons, Jack Okamuro, Jose Costa, Jean-Luc Jannink, and Gerard Lazo (USDA-ARS). A link to the Oat Global website is provided for more information. On the left side, there is a "What's New" section dated February 2016, which includes a link to "Genetic Maps".

T3/Oat

[Contact Us](#)

Home Select Analyze Download Manage About T3

Wizard (Lines, Traits, Trials)

Lines by Properties

Lines by Phenotype

Lines by Haplotype

Lines by Genotype Experiment

Traits and Trials

Markers

Genetic Map

Clear selection

Welcome to T3/Oat!

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- Bruce Roskens (Grain Millers)
- Nicholas Tinker (AAFC)
- Kay Simmons, Jack Okamuro, Jose Costa, Jean-Luc Jannink, and Gerard Lazo (USDA-ARS)

For more information see the [Oat Global](#) website.

What's New

February 2016

Genetic Maps

T3/Oat is built using the database schema and software developed for [The Triticeae Toolbox \(T3\)](#). T3 is the web portal for wheat and barley data generated by the [Triticeae Coordinated Agricultural Project \(T-CAP\)](#), funded by the National Institute for Food and Agriculture ([NIFA](#)) of the US Department of Agriculture (USDA). More...

Section 2: Searching existing line records in T3/Oat

Copy and paste (or type) a list of line names into the “Name” box and click “Search”

Select Lines by Properties

Passport data

Name	Source	Year	Species
LEGGETT	ABC--AAFC Agassiz	2015	abyssinica
AC_ASSINIBOIA	AES--University of California	2014	nuda
CLINTLAND60	ALB--University of Alberta	2013	sativa
DIPPES_UBERWINDER	AUB--AAES, Auburn University	2012	strigosa
24-30-B69	AUS--Australian Department of Agriculture	2011	sterilis
RED_ALGERIAN	BPB--Boreal Plant Breeding Ltd.	2010	brevis

E.g. Cayuga, tur*ey, iwa860*
Synonyms will be translated.

Genetic characters

Category	Property/Gene	Value/Allele
Agronomic Quality Morphological Abiotic stress Biotic stress	Select a Category.	

Preselected line sets

Panel
CORE AFRI109 line panel
CORE Spring line panel
CORE Winter line panel
POGI 2015 entries
UEOPN 2016 entries
UEOPN entries

Search Clear

Section 2: Searching existing line records in T3/Oat

Line "RED_ALGERIAN" not found.

Lines found: 4 [Add to Selected](#)

AC_ASSINIBOIA
CLINTLAND60
DIPPES_UBERWINDER
LEGGETT

[Show line information](#)

- Line names that are already in the database will appear in the results box
- Click "Show line information" to view the existing information for these T3 lines
- Please contact the curator if you have any hesitations about combining your data with that of an existing T3 line of the same name

Lines found: 23 [Add to Selected](#)

AC_ASSINIBOIA
CLINTLAND60
DIPPES_UBERWINDER
LEGGETT
RED_ALGERIAN_NO31
RED_ALGERIAN_SELECTIC
RED_ALGERIAN CIAV1578
RED_ALGERIAN CIAV1796
RED_ALGERIAN CIAV2033
RED_ALGERIAN CIAV2333
RED_ALGERIAN CIAV2511
RED_ALGERIAN CIAV2861
RED_ALGERIAN CIAV2867
RED_ALGERIAN CIAV4635

[Show line information](#)

- An asterisk "*" can be used as a wildcard to find similar names
e.g. RED_ALGERIAN*
- Line aliases will be converted to T3 primary names in the results box
- Line names that are not in T3/Oat should be added using the Line submission template

Section 3.1: Downloading the template

Choose the About T3 menu> Data Submission

T3/Oat

[Contact Us](#)

[Home](#) [Select ▾](#) [Analyze ▾](#) [Download ▾](#) [Manage ▾](#) [About T3 ▾](#)

Overview

Content Status

Data Submission

Trait Descriptions

Genetic Character Descriptions

Contributing Data Programs

Data Usage Policy

Quick Links

[Login/Register](#)

Current selections:

[Lines](#): 0

[Markers](#): All

[Traits](#): 0

[Phenotype Trials](#)

[Genotype Experiments](#)

What's New

March 2016

Genotype Data

Home: T3/Oat

Welcome to T3/Oat!

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- Joe Lutz (General Mills)
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For more information see the [Oat Global](#) website.

T3/Oat is built using the database schema and software developed for [The Triticeae Toolbox](#) (T3). T3 is the web portal for wheat and barley data generated by the [Triticeae Coordinated Agricultural Project](#) (T-CAP), funded by the National Institute for Food and

Section 3.1: Downloading the template

Select the “Oat” line template from the list to download the Excel template

Data Templates

Topic	Link	Version	Contents
Germplasm Lines	Oat	29Jan15	Name, synonyms, pedigree for oat
	Genetic Characters	12Dec13	Genes, QTLs, trait-linked markers, market class
	Name conversion macros	24Sep11	Excel spreadsheet to convert germplasm names to T3 formatted names.
Phenotyping	Traits	16Sep11	Please discuss with the curators before adding a new trait.
	Trial description	04Dec12	Location, planting date, experimental design...
	Trial means	03Dec15	Values for all traits for test lines and checks, summary statistics
	Plot-Level Results	22Jul13	Trait values for each plot
	Fieldbook	07Apr14	Field map
Canopy Spectral Reflectance	CSR System	28Mar13	Instrument annotation

Section 3.2: Completing the template

The notes section contains nearly all of the information needed to fill out the line submission template, apart from:

- Breeding program codes
- Line properties (pale green headings)

This information can be found under the “About T3” menu

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1	Line Submission Form															
2	Version	29Jan15														
3	*Crop	Oat														
4	*Line Name	*Breeding Program	Aliases	GRIN accession	Pedigree	*Filiat Generation	*Species	Lemma color	Growth habit	Straw color	Hull	Milling	Fluorescence	Comments		
5			comma separated values		Purdy notation	0-9										
6	OGLE	UIL	IL73-2664	Clav 9401	BRAVE//TYLER/EGDOLON23	9	sativa	Amber/WH	Spring	Tan	Hulled	Primary use	Non-fluorescent			
7	OTANA	USD	63AB5280-7	Clav 9252	CI5345/ZANSTER	9	sativa	Amber/WH	Spring	Yellow	Hulled	Primary use				
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Notes
Fields with an asterisk

***Line name**
Line Names are unique
update the information
replace or supplement t

A list of line names can
determine whether any

In order to be able to se
• Use all capital letters:
• Spaces cannot be use
• Remo
• Repla
• Characters are restrict
• Repla
• A pipe “|” followed by t
RED_ALGERIAN|CIAV

Aliases
• The same naming rule
• Aliases must be uniqu
• A line can have more

Breeding program co
Program responsible fo
‘About T3’ menu, ‘Contr

GRIN Accession
Include the prefix (e.g. f

Section 3.2: Completing the template

To find the breeding program code

- Choose the About T3 menu> Contributing Data Programs

[Contact Us](#)

T3/Oat

[Home](#) [Select ▾](#) [Analyze ▾](#) [Download ▾](#) [Manage ▾](#) [About T3 ▾](#)

Quick Links

[Login/Register](#)

Current selections:

[Lines: 0](#)

[Markers: All](#)

[Traits: 0](#)

[Phenotype Trials](#)

[Genotype Experiments](#)

Quick search...

What's New

February 2016

[Genetic Maps](#)

Home: T3/Oat

Welcome to T3/Oat!

T3/Oat is the repository of oat phenotypic and genetic data for the Global Oat Genetics Database, a project initiated in January 2014 by

• Gabe Gusmini (PepsiCo)

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[Overview](#)

[Content Status](#)

[Trait Descriptions](#)

[Genetic Character Descriptions](#)

[Contributing Data Programs](#)

[Data Usage Policy](#)

Section 3.2: Completing the template

- The 3-letter breeding program code can be found in the first table on this page
- Contact the curator if you do not find an appropriate code

Contributing Programs

Breeding programs contribute lines.

Breeding Program	Code	Collaborator	Description	Institution
<u>AAES, Auburn University</u>	AUB	Kathryn Glass	Alabama Agricultural Experiment Station (AAES), Auburn University, AL-USA.	Auburn University
<u>AAFC Agassiz</u>	ABC		Agriculture and Agri-Food Canada (AAFC) Pacific Agri-Food Research Centre (PARC) in Agassiz, BC-CAN.	Agriculture and Agri-Food Canada
<u>AAFC Brandon</u>	MTB	Jennifer W. Mitchell-Fetch	Agriculture and Agri-Food Canada (AAFC) Brandon Research Centre, MB-CAN.	Agriculture and Agri-Food Canada
<u>AAFC Lacombe</u>	LAC	Jennifer W. Mitchell-Fetch	Agriculture and Agri-Food Canada (AAFC) Lacombe Research Centre, AB-CAN.	Agriculture and Agri-Food Canada
<u>AAFC Ottawa</u>	OTW	Weikai Yan	Agriculture and Agri-Food Canada (AAFC) Eastern Cereal and Oilseed Research Centre (ECORC) in Ottawa, ON-CAN.	Agriculture and Agri-Food Canada
<u>AAFC Sainte-Eve</u>	STE		Agriculture and Agri-Food Canada (AAFC) Soils and Crops Research and Development Centre (SCRDC) in Quebec	Agriculture and Agri-Food

Section 3.2: Completing the template

To find the values for loading additional line properties

- Choose the About T3 menu> Genetic Character Descriptions

T3/Oat

[Contact Us](#)

[Home](#) [Select ▾](#) [Analyze ▾](#) [Download ▾](#) [Manage ▾](#) [About T3 ▾](#)

Quick Links

[Login/Register](#)

Current selections:

[Lines: 0](#)

[Markers: All](#)

[Traits: 0](#)

[Phenotype Trials](#)

[Genotype Experiments](#)

What's New

February 2016

[Genetic Maps](#)

Home: T3/Oat

Welcome to T3/Oat!

T3/Oat is the repository of oat phenotypic and genetic data.

• Gabe Gusmini (PepsiCo)

• Joe Lutz (General Mills)

• Bruce Roskens (Grain Millers)

• Nicholas Tinker (AAFC)

• Kay Simmons, Jack Okamuro, Jose Costa, Jean-Luc Jannink, and Gerard Lazo (USDA-ARS)

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[Overview](#)

[Content Status](#)

[Trait Descriptions](#)

[Genetic Character Descriptions](#)

[Contributing Data Programs](#)

[Data Usage Policy](#)

Global Oat Genetics Database, a project initiated in January 2014 by

Section 3.2: Completing the template

- Use the values in the first column as headings in the template
- Use one of the values in the third column to provide line information

Property Descriptions

Agronomic		Description	Values
Growth habit	Vernalization requirement		Spring, Winter, Facultative, Mixed
Species	Avena species		abyssinica, nuda, sativa, strigosa, sterilis, brevis, hybrid, unknown, fatua, wiestii, maroccana, hybrida, longiglumis, vaviloviana, barbata, byzantina
Biotic stress		Description	Values
Pc-14	Dominant gene conferring resistance to crown rust (<i>Puccinia coronata</i>) race 202.		Present, Absent, Heterozygous
Pc-2	Partially dominant gene conferring resistance to crown rust (<i>Puccinia coronata</i>) race 1. The gene is pleiotropic or closely linked with Hv-1.		Present, Absent, Heterozygous
Pc-38	Gene conferring resistance to crown rust (<i>Puccinia coronata</i>) races 264, 290, 295, 332 and 446 in <i>Avena sterilis</i> CW491-4. Susceptible to race 202.		Present, Absent, Heterozygous
Pc-39	Dominant gene conferring resistance to crown rust (<i>Puccinia coronata</i>) races 264, 290, 295, 332 and 446 in <i>Avena sterilis</i> F366. The gene is allelic or closely linked to Pc-55.		Present, Absent, Heterozygous
Pc-45	Dominant gene conferring resistance to crown rust (<i>Puccinia coronata</i>) races 239, 264, 290, 326, 330 and 332 in <i>Avena sterilis</i> F-169.		Present, Absent, Heterozygous
Pc-58	Gene conferring resistance to crown rust (<i>Puccinia coronata</i>) race 264B, among other races of crown rust. The gene was derived from <i>Avena sterilis</i> PI 295919 (CI 8387).		Present, Absent, Heterozygous

Section 4.1: Test loading the template

- Navigate to the Oat Sandbox at <https://t3sandbox.org/t3/sandbox/oat/>
- The curation menu will appear once you register and login
- Choose the Curate menu> Lines

The screenshot shows the T3/Oat Sandbox website. The header is a green bar with the text "T3/Oat Sandbox" on the left and a "Contact Us" button on the right. Below the header is a navigation bar with links: Home, Select, Analyze, Download, Curate, and About T3. The "Curate" link is highlighted, and a dropdown menu is open showing options: Lines, Pedigrees, Phenotype Trials, Phenotype Results, CSR Data, Delete Trials and Experiments, Traits and Genetic Characters, Genotype Experiments, Genotype Results, Maps, Markers, and Contributing Data Programs. The "Lines" option is selected. The main content area is divided into three columns. The left column has a "Quick Links" section with "Current selections:" and links for Lines, Markers, Traits, Phenotype Trials, and Genotype Experiments. Below this is a "What's New" section dated February 2016 and a "Genetic Maps" section. The middle column has a "Home: T3/Oat" section with a "Welcome to" message and a list of contributors: Gabe Gusmini, Joe Lutz (Genetics), Bruce Roskens, Nicholas Tinker, and Kay Simmons. It also mentions "For more information" and "T3/Oat is built on" and "generated by the" and "Department of A". The right column has a section about the "Global Oat Genetics Database" initiated in January 2014 by Jannink and Gerard Lazo (USDA-ARS). It also mentions "The Triticeae Toolbox (T3)" and "The National Institute for Food and Agriculture (NIFA) of the US".

T3/Oat Sandbox

Contact Us

Home Select ▾ Analyze ▾ Download ▾ Curate ▾ About T3 ▾

Quick Links

Current selections:
Lines: 0
Markers: All
Traits: 0
[Phenotype Trials](#)
[Genotype Experiments](#)

Quick search...

What's New
February 2016
Genetic Maps

Home: T3/Oat

Welcome to

T3/Oat is the repository for oat data for the Global Oat Genetics Database, a project initiated in January 2014 by Jannink, and Gerard Lazo (USDA-ARS)

For more information, visit the T3/Oat website.

T3/Oat is built on the T3/Oat platform, which was developed by the T3/Oat team, and is generated by the T3/Oat team, which is part of the Department of Agriculture, Food and Forestry, and is funded by the National Institute for Food and Agriculture (NIFA) of the US.

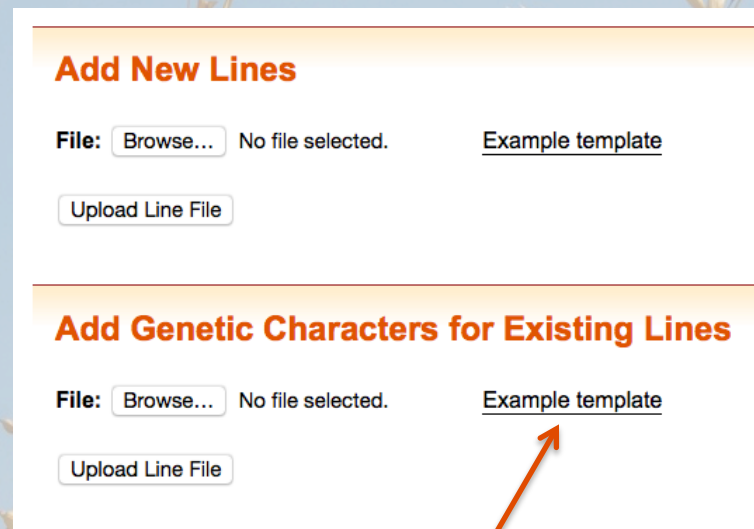
Curate

- Lines
- Pedigrees
- Phenotype Trials
- Phenotype Results
- CSR Data
- Delete Trials and Experiments
- Traits and Genetic Characters
- Genotype Experiments
- Genotype Results
- Maps
- Markers
- Contributing Data Programs

The T3/Oat platform was developed for The Triticeae Toolbox (T3). T3 is the web portal for wheat and barley data for the Triticeae Toolbox (T3), funded by the National Institute for Food and Agriculture (NIFA) of the US.

Section 4.1: Test loading the template

The sandbox allows you to test load your template. The Oat Sandbox reverts to an exact copy of T3/Oat overnight.



Add New Lines

File: No file selected. [Example template](#)

Add Genetic Characters for Existing Lines

File: No file selected. [Example template](#)

An additional template allows you to add genetic characters/line properties to existing T3 lines

- The only required field is the T3 line name
- The template can also be downloaded from the Data Submission page

Section 4.1: Test loading the template

- T3 will highlight illegal entries in your uploaded line file
e.g. Filial generation cannot exceed 9
- The window shows how T3 has read the upload file. Please take the time to validate that your data appears there correctly.

Line information: Validation

Errors

1: OTANA: Filial Generation (1-9) is required.

We saw the following data in the uploaded file.

Line Name	Breeding Program	Aliases	GRIN	Pedigree	Generation	Species	Lemma color	Growth habit	Straw color	Hull	Milling	Fluorescence	Comments
OGLE	UIL	IL73-2664	Clav 9401	BRAVE//TYLER/EGDOLON23	9				Non-fluorescent				
OTANA	USD	63AB5280-7	Clav 9252	CI5345/ZANSTER	10								

Please fix these errors and try again.

[Return](#)

Section 4.1: Test loading the template

- A second box will appear when there are no illegal entries in the uploaded document
- The lower box separates the uploaded lines into new lines and existing T3 lines
- Don't forget to "Accept" the upload if the information is correct

Line information: Validation

The file is read as follows.

Line Name	Breeding Program	Aliases	GRIN	Pedigree	Generation	Species	Lemma color	Growth habit	Straw color	Hull	Milling	Fluorescence	Comments
OGLE	UIL		IL73-2664	Clav 9401		BRAVE//TYLER/EGDOLON23		9		Non-fluorescent			
OTANA	USD		63AB5280-7	Clav 9252		CI5345/ZANSTER		9					

The following lines will be added or edited.

Please verify that

1. The lines to be added are new ones and aren't already in the database, e.g. under a variant spelling.
2. The lines to be edited are ones you wish to change the existing data for.

Please don't replace a detailed pedigree with a shallower one, unless it's wrong.

Lines to Add:

Lines to Edit: 2

OTANA

OGLE

Editing lines

To add or change information about a line, edit the file and reload, or load a new one. Empty cells and unchanged cells will have no effect. Cells with content will **replace** the existing values. (exception: New Aliases will be **added**.)

Alternatively you can use the [Edit Lines](#) form.

Accept Cancel

Section 4.1: Submitting the template

Finally, submit the document to the curator for upload to T3/Oat

- Navigate to the Data Submission page
- Click the “Submit” button

The screenshot shows the T3/Oat Sandbox website. At the top is a navigation bar with a 'Contact Us' link. Below it is a header with the site name 'T3/Oat Sandbox' and a main menu with links: Home, Select, Analyze, Download, Curate, and About T3. The 'Curate' link is highlighted. On the left is a sidebar with 'Quick Links' (Current selections: Lines: 0, Markers: All, Traits: 0, Phenotype Trials, Genotype Experiments) and 'What's New' (February 2016, Genetic Maps). The main content area is titled 'Data Submission' and contains a list of instructions, a 'Submit' button, and links to 'Instructions' and 'Tutorials'.

T3/Oat Sandbox

Home Select ▾ Analyze ▾ Download ▾ Curate ▾ About T3 ▾

Quick Links

Current selections:
[Lines: 0](#)
[Markers: All](#)
[Traits: 0](#)
[Phenotype Trials](#)
[Genotype Experiments](#)

Quick search...

What's New
February 2016
Genetic Maps

Data Submission

- Data templates are Excel, .txt, or .csv worksheets with column headers for the data T3 requires or accepts.
- The example values can be replaced with your own. Notes about the restrictions for valid data are included in the templates.
- Once populated, the files can be loaded into T3 using the **Curate** menu, which is available to registered Sandbox users.
- To make updates or corrections, edit your file and reload.
- Please use the [oat Sandbox](#) database for test-loading your files. When they're ready, click here to submit them to the T3 Curator for loading into the official database.

Instructions - Rules for filling in the templates, and sequence of submission

Tutorials

- [Lesson One](#). Germplasm file creation and upload
- [Lesson Two](#). (.pdf) Phenotype trial descriptions and data
- [Lesson Three](#). Genotype trial descriptions and data
- [Lesson Four](#). How to create germplasm line panels in T3

Section 4.1: Submitting the template

Data Submission

Please submit a data file for the curator to load into the production database. File names should not contain spaces.

Data Type

- ☐ Germplasm lines
- **Phenotyping**
 - ☐ Experiment annotation
 - ☐ Results
- **Genotyping**
 - ☐ Experiment annotation
 - ☐ Results

Comments

This file loads successfully in the Sandbox. ☐ Yes ☒ No
☐ This file contains phenotype data private to project members only.

File: No file selected.

You can submit files that do not successfully upload to the Oat Sandbox to receive help from the curator

Contact Us

Please contact us if you need help using T3/Oat

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T3/Oat

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Quick Links

[Login/Register](#)

Current selections:

[Lines](#): 0

[Markers](#): All

[Traits](#): 0

[Phenotype Trials](#)

[Genotype Experiments](#)

Quick search...

What's New

February 2016

Genetic Maps

An expanded oat consensus map (50,668 markers) is now [available](#) in addition to the Framework Oat Consensus Map (7,202 markers) and the 12 component maps used to develop the consensus map.

Home: T3/Oat

Welcome to T3/Oat!

T3/Oat is the repository of oat phenotype and genotype data for the Global Oat Genetics Database, a project initiated in January 2014 by

- Gabe Gusmini (PepsiCo)
- Joe Lutz (General Mills)
- Bruce Roskens (Grain Millers)
- Nicholas Tinker (AAFC)
- Kay Simmons, Jack Okamuro, Jose Costa, Jean-Luc Jannink, and Gerard Lazo (USDA-ARS)

For more information see the [Oat Global](#) website.

T3/Oat is built using the database schema and software developed for [The Triticeae Toolbox](#) (T3). T3 is the web portal for wheat and barley data generated by the [Triticeae Coordinated Agricultural Project](#) (T-CAP), funded by the National Institute for Food and Agriculture ([NIFA](#)) of the US Department of Agriculture ([USDA](#)). [More...](#)

Participants: The templates and instructions for data submission are [here](#). If your data are not totally public, please check the [Data Usage Policy](#).

[Data submission](#)